

## WEST Search History for Application 10590446

Creation Date: 2012032317:17

### Prior Art Searches

Query	DB	Op.	Plur.	Thes.	Date
20030153078.PN.	PGPB, USPT	ADJ	YES		07-23-2010
(THREE DIMENSION\$5) SAME TISSUE	PGPB, USPT	ADJ	YES		07-23-2010
((THREE DIMENSION\$5) SAME TISSUE ) AND (20030153078.PN. )	PGPB, USPT	ADJ	YES		07-23-2010
(COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR))	PGPB, USPT	ADJ	YES		07-23-2010
((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) ) AND ((THREE DIMENSION\$5) SAME TISSUE AND 20030153078.PN. )	PGPB, USPT	ADJ	YES		07-23-2010
((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) ) AND ((THREE DIMENSION\$5) SAME TISSUE )	PGPB, USPT	ADJ	YES		07-23-2010
((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE ) AND (20030153078.PN. )	PGPB, USPT	ADJ	YES		07-23-2010
MESENCHYMA	PGPB, USPT	ADJ	YES		07-23-2010
(CARTILAGE OR (BONE TISSUE)) SAME MONOLAYER	PGPB, USPT	ADJ	YES		07-23-2010
AGGREGATE	PGPB, USPT	ADJ	YES		07-23-2010
(AGGREGATE ) SAME (20030153078.PN. )	PGPB, USPT	ADJ	YES		07-23-2010
(AGGREGATE ) AND (20030153078.PN. )	PGPB, USPT	ADJ	YES		07-23-2010

<b>(AGGREGATE AND 20030153078.PN. ) AND ((CARTILAGE OR (BONE TISSUE)) SAME MONOLAYER )</b>	PGPB, USPT	ADJ	YES		07-23-2010
<b>(AGGREGATE AND 20030153078.PN. AND (CARTILAGE OR (BONE TISSUE)) SAME MONOLAYER ) AND ((THREE DIMENSION\$5) SAME TISSUE )</b>	PGPB, USPT	ADJ	YES		07-23-2010
<b>(AGGREGATE AND 20030153078.PN. AND (CARTILAGE OR (BONE TISSUE)) SAME MONOLAYER AND (THREE DIMENSION\$5) SAME TISSUE ) AND ((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) )</b>	PGPB, USPT	ADJ	YES		07-23-2010
<b>("3D") OR ("3") near5 (D OR DIMENSION\$8))</b>	PGPB, USPT	ADJ	YES		12-18-2010
<b>cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4)</b>	PGPB, USPT	ADJ	YES		12-18-2010
<b>Matrix\$6 or matrices</b>	PGPB, USPT	ADJ	YES		12-18-2010
<b>embed\$6</b>	PGPB, USPT	ADJ	YES		12-18-2010
<b>engineer\$6 same ((tissue or (biologic\$9 same structur\$4)))</b>	PGPB, USPT	ADJ	YES		12-18-2010
<b>computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5))</b>	PGPB, USPT	ADJ	YES		12-18-2010
<b>cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4)</b>	PGPB, USPT	ADJ	YES		12-18-2010
<b>((("3D") OR ("3") near5 (D OR DIMENSION\$8)) ) same (cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )</b>	PGPB, USPT	ADJ	YES		12-18-2010
<b>(Matrix\$6 or matrices ) same (("3D") OR ("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )</b>	PGPB, USPT	ADJ	YES		12-18-2010
<b>(embed\$6 ) same (Matrix\$6 or matrices same ("3D") OR ("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )</b>	PGPB, USPT	ADJ	YES		12-18-2010
<b>(engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) ) same (embed\$6 same Matrix\$6 or matrices same ("3D") OR ("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )</b>	PGPB, USPT	ADJ	YES		12-18-2010

(computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) same ("3D") OR ("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		12-18-2010
(Matrix\$6 or matrices ) same (computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) same ("3D") OR ("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		12-18-2010
(computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) same (cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		12-18-2010
("3D") OR ("3") near5 (D OR DIMENSION\$8)) ) same (computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		12-18-2010
(Matrix\$6 or matrices ) same ("3D") OR ("3") near5 (D OR DIMENSION\$8)) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		12-18-2010
(Matrix\$6 or matrices ) same (computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		12-18-2010
(engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) ) same (Matrix\$6 or matrices same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		12-18-2010
("3D") OR ("3") near5 (D OR DIMENSION\$8)) ) and (cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		12-18-2010
(engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) ) and ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		12-18-2010
(computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) and (engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		12-18-2010
connective same tissue	PGPB, USPT	ADJ	YES		12-18-2010
epitheli\$8 same cell	PGPB, USPT	ADJ	YES		12-18-2010

matrix same gel	PGPB, USPT	ADJ	YES		12-18-2010
(connective same tissue ) and (matrix same gel )	PGPB, USPT	ADJ	YES		12-18-2010
(connective same tissue ) same (matrix same gel )	PGPB, USPT	ADJ	YES		12-18-2010
(epitheli\$8 same cell ) same (connective same tissue same matrix same gel )	PGPB, USPT	ADJ	YES		12-18-2010
(engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) ) same (computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		12-18-2010
((("3D") OR (("3") near5 (D OR DIMENSION\$8)) ) same (engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		12-18-2010
(epitheli\$8 same cell same connective same tissue same matrix same gel ) same ((("3D") OR (("3") near5 (D OR DIMENSION\$8)) same engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		12-18-2010
(epitheli\$8 same cell same connective same tissue same matrix same gel ) same (engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		12-18-2010
(epitheli\$8 same cell same connective same tissue same matrix same gel ) same (connective same tissue same matrix same gel )	PGPB, USPT	ADJ	YES		12-18-2010
(epitheli\$8 same cell same connective same tissue same matrix same gel ) and ((("3D") OR (("3") near5 (D OR DIMENSION\$8)) same engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		12-18-2010
(epitheli\$8 same cell same connective same tissue same matrix same gel ) and (engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		12-18-2010
(connective same tissue ) and (epitheli\$8 same cell )	PGPB, USPT	ADJ	YES		12-18-2010

(matrix same gel ) and (connective same tissue and epitheli\$8 same cell )	PGPB, USPT	ADJ	YES		12-18-2010
(cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) ) and (matrix same gel and connective same tissue and epitheli\$8 same cell )	PGPB, USPT	ADJ	YES		12-18-2010
(cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) ) and (computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		12-18-2010
(cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell ) and (cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		12-18-2010
(Matrix\$6 or matrices ) and (cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		12-18-2010
(engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) ) and (Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		12-18-2010
(embed\$6 ) and (engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		12-18-2010
Layer\$5 same (matrix\$4 or matrices)	PGPB, USPT	ADJ	YES		12-18-2010
(cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) ) same (Layer\$5 same (matrix\$4 or matrices) )	PGPB, USPT	ADJ	YES		12-18-2010
(embed\$6 and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) and	PGPB, USPT	ADJ	YES		12-18-2010

(cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) same Layer\$5 same (matrix\$4 or matrices) )					
6197575.pn.	PGPB, USPT	ADJ	YES		12-18-2010
((("3D") OR (("3") near5 (D OR DIMENSION\$8)) ) same (6197575.pn. )	PGPB, USPT	ADJ	YES		12-18-2010
((("3D") OR (("3") near5 (D OR DIMENSION\$8)) ) and (6197575.pn. )	PGPB, USPT	ADJ	YES		12-18-2010
(embed\$6 and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) same Layer\$5 same (matrix\$4 or matrices) ) and (("3D") OR (("3") near5 (D OR DIMENSION\$8)) and 6197575.pn. )	PGPB, USPT	ADJ	YES		12-18-2010
(numerical same model) same (computer same(simulat\$5 or model\$6 or programmed))	PGPB, USPT	ADJ	YES		12-18-2010
((("3D") OR (("3") near5 (D OR DIMENSION\$8)) ) same (cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		12-18-2010
((numerical same model) same (computer same(simulat\$5 or model\$6 or programmed)) ) same (("3D") OR (("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		12-18-2010
((numerical same model) same (computer same(simulat\$5 or model\$6 or programmed)) ) and (("3D") OR (("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		12-18-2010
(embed\$6 and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) same Layer\$5 same (matrix\$4 or matrices) and ("3D") OR (("3") near5 (D OR DIMENSION\$8)) and 6197575.pn. ) and ((numerical same model) same (computer same(simulat\$5 or model\$6 or programmed))	PGPB, USPT	ADJ	YES		12-18-2010

and ("3D") OR ("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )					
("3D") OR ("3") and (D OR DIMENSION\$8))	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
Matrix\$6 or matrices	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
embed\$6	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
engineer\$6 and((tissue or (biologic\$9 and structur\$4)))	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
computer and(simulat\$7 or assist\$7 or design\$5 or (assisted and design\$5))	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4)	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
connective tissue	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
epitheli\$8 and cell	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
matrix and gel	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
Layer\$5 and (matrix\$4 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(numerical and model)and (computer and(simulat\$5 or model\$6 or programmed))	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
("3D") OR ("3") and (D OR DIMENSION\$8)) ) and (Layer\$5 and (matrix\$4 or matrices) )	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) ) and ("3D") OR ("3") and (D OR DIMENSION\$8)) and Layer\$5 and (matrix\$4 or matrices) )	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010

((numerical and model)and (computer and(simulat\$5 or model\$6 or programmed)) ) and (cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and ("3D") OR ("3") and (D OR DIMENSION\$8)) and Layer\$5 and (matrix\$4 or matrices) )	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(epitheli\$8 and cell ) and (matrix and gel )	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(Layer\$5 and (matrix\$4 or matrices) ) and (epitheli\$8 and cell and matrix and gel )	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(connective tissue ) and (Layer\$5 and (matrix\$4 or matrices) and epitheli\$8 and cell and matrix and gel )	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(engineer\$6 and((tissue or (biologic\$9 and structur\$4))) ) and (computer and(simulat\$7 or assist\$7 or design\$5 or (assisted and design\$5)) )	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) ) and (connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(epitheli\$8 and cell ) and (cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(matrix and gel ) and (epitheli\$8 and cell and cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(Layer\$5 and (matrix\$4 or matrices) ) and (epitheli\$8 and cell and cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(engineer\$6 and((tissue or (biologic\$9 and structur\$4))) and computer and(simulat\$7 or assist\$7 or design\$5 or (assisted and design\$5)) ) and (cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(engineer\$6 and((tissue or (biologic\$9 and structur\$4))) and computer and(simulat\$7 or assist\$7 or design\$5 or (assisted and design\$5)) ) and (epitheli\$8 and cell and cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(Layer\$5 and (matrix\$4 or matrices) and epitheli\$8 and cell and matrix and gel ) and (epitheli\$8 and cell and cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010



(Layer\$5 and (matrix\$4 or matrices) and epitheli\$8 and cell and matrix and gel ) and (cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(Layer\$5 and (matrix\$4 or matrices) and epitheli\$8 and cell and matrix and gel ) and (engineer\$6 and((tissue or (biologic\$9 and structur\$4))) and computer and(simulat\$7 or assist\$7 or design\$5 or (assisted and design\$5)) )	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(Layer\$5 and (matrix\$4 or matrices) and epitheli\$8 and cell and matrix and gel ) and (matrix and gel and epitheli\$8 and cell and cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(Layer\$5 and (matrix\$4 or matrices) and epitheli\$8 and cell and matrix and gel ) and (('3D") OR (('3") and (D OR DIMENSION\$8)) )	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(Matrix\$6 or matrices ) and (Layer\$5 and (matrix\$4 or matrices) and epitheli\$8 and cell and matrix and gel and ("3D") OR (('3") and (D OR DIMENSION\$8)) )	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(embed\$6 ) and (Matrix\$6 or matrices and Layer\$5 and (matrix\$4 or matrices) and epitheli\$8 and cell and matrix and gel and ("3D") OR (('3") and (D OR DIMENSION\$8)) )	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
((("3D") OR (('3") and (D OR DIMENSION\$8)) ) and (Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(embed\$6 ) and (('3D") OR (('3") and (D OR DIMENSION\$8)) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(engineer\$6 and((tissue or (biologic\$9 and structur\$4))) ) and (embed\$6 and ("3D") OR (('3") and (D OR DIMENSION\$8)) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(computer and(simulat\$7 or assist\$7 or design\$5 or (assisted and design\$5)) ) and (embed\$6 and ("3D") OR (('3") and (D OR DIMENSION\$8)) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) ) and (embed\$6 and ("3D") OR (('3") and (D OR DIMENSION\$8)) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(connective tissue ) and (cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and embed\$6 and ("3D") OR (('3") and (D OR DIMENSION\$8)) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010

(epitheli\$8 and cell ) and (cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and embed\$6 and ("3D") OR ("3") and (D OR DIMENSION\$8)) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(matrix and gel ) and (cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and embed\$6 and ("3D") OR ("3") and (D OR DIMENSION\$8)) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(Layer\$5 and (matrix\$4 or matrices) ) and (cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and embed\$6 and ("3D") OR ("3") and (D OR DIMENSION\$8)) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(computer and(simulat\$7 or assist\$7 or design\$5 or (assisted and design\$5)) and embed\$6 and ("3D") OR ("3") and (D OR DIMENSION\$8)) and Matrix\$6 or matrices ) and (Layer\$5 and (matrix\$4 or matrices) and cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and embed\$6 and ("3D") OR ("3") and (D OR DIMENSION\$8)) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
20030153078.PN.	PGPB, USPT	ADJ	YES		12-18-2010
(THREE DIMENSION\$5) SAME TISSUE	PGPB, USPT	ADJ	YES		12-18-2010
((THREE DIMENSION\$5) SAME TISSUE ) AND (20030153078.PN. )	PGPB, USPT	ADJ	YES		12-18-2010
(COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR))	PGPB, USPT	ADJ	YES		12-18-2010
((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) ) AND ((THREE DIMENSION\$5) SAME TISSUE )	PGPB, USPT	ADJ	YES		12-18-2010
MESENCHYMA	PGPB, USPT	ADJ	YES		12-18-2010
(CARTILAGE OR (BONE TISSUE)) SAME MONOLAYER	PGPB, USPT	ADJ	YES		12-18-2010
AGGREGATE	PGPB, USPT	ADJ	YES		12-18-2010
(AGGREGATE ) AND (20030153078.PN. )	PGPB, USPT	ADJ	YES		12-18-2010
(AGGREGATE AND 20030153078.PN. ) AND ((CARTILAGE OR (BONE TISSUE)) SAME	PGPB, USPT	ADJ	YES		12-18-2010

MONOLAYER )					
(AGGREGATE AND 20030153078.PN. AND (CARTILAGE OR (BONE TISSUE)) SAME MONOLAYER ) AND ((THREE DIMENSION\$5) SAME TISSUE )	PGPB, USPT	ADJ	YES		12-18-2010
("3D") OR ("3") near5 (D OR DIMENSION\$8))	PGPB, USPT	ADJ	YES		08-11-2011
cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4)	PGPB, USPT	ADJ	YES		08-11-2011
Matrix\$6 or matrices	PGPB, USPT	ADJ	YES		08-11-2011
embed\$6	PGPB, USPT	ADJ	YES		08-11-2011
engineer\$6 same ((tissue or (biologic\$9 same structur\$4)))	PGPB, USPT	ADJ	YES		08-11-2011
computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5))	PGPB, USPT	ADJ	YES		08-11-2011
cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4)	PGPB, USPT	ADJ	YES		08-11-2011
("3D") OR ("3") near5 (D OR DIMENSION\$8)) ) same (cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		08-11-2011
(Matrix\$6 or matrices ) same ("3D") OR ("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		08-11-2011
(embed\$6 ) same (Matrix\$6 or matrices same ("3D") OR ("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		08-11-2011
(engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) ) same (embed\$6 same Matrix\$6 or matrices same ("3D") OR ("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		08-11-2011
(computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) same ("3D") OR ("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		08-11-2011
(Matrix\$6 or matrices ) same (computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) same ("3D") OR ("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		08-11-2011

(computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) same (cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		08-11-2011
((("3D") OR (("3") near5 (D OR DIMENSION\$8))) ) same (computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		08-11-2011
(Matrix\$6 or matrices ) same ((("3D") OR (("3") near5 (D OR DIMENSION\$8))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		08-11-2011
(Matrix\$6 or matrices ) same (computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		08-11-2011
(engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) ) same (Matrix\$6 or matrices same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		08-11-2011
((("3D") OR (("3") near5 (D OR DIMENSION\$8))) ) and (cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		08-11-2011
(engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) ) and ((("3D") OR (("3") near5 (D OR DIMENSION\$8))) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		08-11-2011
(computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) and (engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and ((("3D") OR (("3") near5 (D OR DIMENSION\$8))) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		08-11-2011
connective same tissue	PGPB, USPT	ADJ	YES		08-11-2011
epitheli\$8 same cell	PGPB, USPT	ADJ	YES		08-11-2011
matrix same gel	PGPB, USPT	ADJ	YES		08-11-2011
(connective same tissue ) and (matrix same gel )	PGPB, USPT	ADJ	YES		08-11-2011
(connective same tissue ) same (matrix same gel )	PGPB, USPT	ADJ	YES		08-11-2011
		ADJ	YES		08-11-2011

(epitheli\$8 same cell ) same (connective same tissue same matrix same gel )	PGPB, USPT				
(engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) ) same (computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		08-11-2011
((("3D") OR (("3") near5 (D OR DIMENSION\$8)) ) same (engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		08-11-2011
(epitheli\$8 same cell same connective same tissue same matrix same gel ) same (connective same tissue same matrix same gel )	PGPB, USPT	ADJ	YES		08-11-2011
(epitheli\$8 same cell same connective same tissue same matrix same gel ) and (engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		08-11-2011
(connective same tissue ) and (epitheli\$8 same cell )	PGPB, USPT	ADJ	YES		08-11-2011
(matrix same gel ) and (connective same tissue and epitheli\$8 same cell )	PGPB, USPT	ADJ	YES		08-11-2011
(cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) ) and (matrix same gel and connective same tissue and epitheli\$8 same cell )	PGPB, USPT	ADJ	YES		08-11-2011
(cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) ) and (computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		08-11-2011
(cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell ) and (cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		08-11-2011
(Matrix\$6 or matrices ) and (cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		08-11-2011
(engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) ) and (Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or	PGPB, USPT	ADJ	YES		08-11-2011

composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )					
(embed\$6 ) and (engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		08-11-2011
Layer\$5 same (matrix\$4 or matrices)	PGPB, USPT	ADJ	YES		08-11-2011
(cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) ) same (Layer\$5 same (matrix\$4 or matrices) )	PGPB, USPT	ADJ	YES		08-11-2011
(embed\$6 and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) and (cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) same Layer\$5 same (matrix\$4 or matrices) )	PGPB, USPT	ADJ	YES		08-11-2011
6197575.pn.	PGPB, USPT	ADJ	YES		08-11-2011
((("3D")) OR (("3")) near5 (D OR DIMENSION\$8)) ) and (6197575.pn. )	PGPB, USPT	ADJ	YES		08-11-2011
(embed\$6 and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) same Layer\$5 same (matrix\$4 or matrices) ) and ((("3D")) OR (("3")) near5 (D OR DIMENSION\$8)) and 6197575.pn. )	PGPB, USPT	ADJ	YES		08-11-2011
(numerical same model) same (computer same(simulat\$5 or model\$6 or programmed))	PGPB, USPT	ADJ	YES		08-11-2011
((("3D")) OR (("3")) near5 (D OR DIMENSION\$8)) ) same (cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		08-11-2011
((numerical same model) same (computer same(simulat\$5 or model\$6 or programmed)) ) and	PGPB, USPT	ADJ	YES		08-11-2011

((("3D")) OR (("3")) near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )					
("3D") OR ("3") and (D OR DIMENSION\$8))	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
Matrix\$6 or matrices	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
embed\$6	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
engineer\$6 and(((tissue or (biologic\$9 and structur\$4)))	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
computer and(simulat\$7 or assist\$7 or design\$5 or (assisted and design\$5))	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4)	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
connective tissue	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
epitheli\$8 and cell	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
matrix and gel	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
Layer\$5 and (matrix\$4 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(numerical and model)and (computer and(simulat\$5 or model\$6 or programmed))	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
((("3D")) OR (("3")) and (D OR DIMENSION\$8)) ) and (Layer\$5 and (matrix\$4 or matrices) )	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) ) and ((("3D")) OR (("3")) and (D OR DIMENSION\$8)) and Layer\$5 and (matrix\$4 or matrices) )	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011

((numerical and model)and (computer and(simulat\$5 or model\$6 or programmed)) ) and (cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and ("3D") OR ("3") and (D OR DIMENSION\$8)) and Layer\$5 and (matrix\$4 or matrices) )	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(epitheli\$8 and cell ) and (matrix and gel )	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(Layer\$5 and (matrix\$4 or matrices) ) and (epitheli\$8 and cell and matrix and gel )	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(connective tissue ) and (Layer\$5 and (matrix\$4 or matrices) and epitheli\$8 and cell and matrix and gel )	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(engineer\$6 and((tissue or (biologic\$9 and structur\$4))) ) and (computer and(simulat\$7 or assist\$7 or design\$5 or (assisted and design\$5)) )	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) ) and (connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(epitheli\$8 and cell ) and (cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(matrix and gel ) and (epitheli\$8 and cell and cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(Layer\$5 and (matrix\$4 or matrices) ) and (epitheli\$8 and cell and cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(engineer\$6 and((tissue or (biologic\$9 and structur\$4))) and computer and(simulat\$7 or assist\$7 or design\$5 or (assisted and design\$5)) ) and (cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(engineer\$6 and((tissue or (biologic\$9 and structur\$4))) and computer and(simulat\$7 or assist\$7 or design\$5 or (assisted and design\$5)) ) and (epitheli\$8 and cell and cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(Layer\$5 and (matrix\$4 or matrices) and epitheli\$8 and cell and matrix and gel ) and (epitheli\$8 and cell and cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011



(Layer\$5 and (matrix\$4 or matrices) and epitheli\$8 and cell and matrix and gel ) and (cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(Layer\$5 and (matrix\$4 or matrices) and epitheli\$8 and cell and matrix and gel ) and (engineer\$6 and((tissue or (biologic\$9 and structur\$4))) and computer and(simulat\$7 or assist\$7 or design\$5 or (assisted and design\$5)) )	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(Layer\$5 and (matrix\$4 or matrices) and epitheli\$8 and cell and matrix and gel ) and (matrix and gel and epitheli\$8 and cell and cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(Layer\$5 and (matrix\$4 or matrices) and epitheli\$8 and cell and matrix and gel ) and (('3D") OR (('3") and (D OR DIMENSION\$8)) )	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(Matrix\$6 or matrices ) and (Layer\$5 and (matrix\$4 or matrices) and epitheli\$8 and cell and matrix and gel and ("3D") OR (('3") and (D OR DIMENSION\$8)) )	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(embed\$6 ) and (Matrix\$6 or matrices and Layer\$5 and (matrix\$4 or matrices) and epitheli\$8 and cell and matrix and gel and ("3D") OR (('3") and (D OR DIMENSION\$8)) )	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
((("3D") OR (('3") and (D OR DIMENSION\$8)) ) and (Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(embed\$6 ) and (('3D") OR (('3") and (D OR DIMENSION\$8)) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(engineer\$6 and((tissue or (biologic\$9 and structur\$4))) ) and (embed\$6 and ("3D") OR (('3") and (D OR DIMENSION\$8)) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(computer and(simulat\$7 or assist\$7 or design\$5 or (assisted and design\$5)) ) and (embed\$6 and ("3D") OR (('3") and (D OR DIMENSION\$8)) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) ) and (embed\$6 and ("3D") OR (('3") and (D OR DIMENSION\$8)) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(connective tissue ) and (cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and embed\$6 and ("3D") OR (('3") and (D OR DIMENSION\$8)) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011

(epitheli\$8 and cell ) and (cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and embed\$6 and ("3D") OR ("3") and (D OR DIMENSION\$8)) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(matrix and gel ) and (cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and embed\$6 and ("3D") OR ("3") and (D OR DIMENSION\$8)) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(Layer\$5 and (matrix\$4 or matrices) ) and (cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and embed\$6 and ("3D") OR ("3") and (D OR DIMENSION\$8)) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(computer and(simulat\$7 or assist\$7 or design\$5 or (assisted and design\$5)) and embed\$6 and ("3D") OR ("3") and (D OR DIMENSION\$8)) and Matrix\$6 or matrices ) and (Layer\$5 and (matrix\$4 or matrices) and cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and embed\$6 and ("3D") OR ("3") and (D OR DIMENSION\$8)) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
20030153078.PN.	PGPB, USPT	ADJ	YES		08-11-2011
(THREE DIMENSION\$5) SAME TISSUE	PGPB, USPT	ADJ	YES		08-11-2011
((THREE DIMENSION\$5) SAME TISSUE ) AND (20030153078.PN. )	PGPB, USPT	ADJ	YES		08-11-2011
(COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR))	PGPB, USPT	ADJ	YES		08-11-2011
((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) ) AND ((THREE DIMENSION\$5) SAME TISSUE )	PGPB, USPT	ADJ	YES		08-11-2011
MESENCHYMA	PGPB, USPT	ADJ	YES		08-11-2011
(CARTILAGE OR (BONE TISSUE)) SAME MONOLAYER	PGPB, USPT	ADJ	YES		08-11-2011
AGGREGATE	PGPB, USPT	ADJ	YES		08-11-2011
(AGGREGATE ) AND (20030153078.PN. )	PGPB, USPT	ADJ	YES		08-11-2011
(AGGREGATE AND 20030153078.PN. ) AND ((CARTILAGE OR (BONE TISSUE)) SAME	PGPB, USPT	ADJ	YES		08-11-2011

<b>MONOLAYER )</b>					
<b>(AGGREGATE AND 20030153078.PN. AND (CARTILAGE OR (BONE TISSUE)) SAME MONOLAYER ) AND ((THREE DIMENSION\$5) SAME TISSUE )</b>	PGPB, USPT	ADJ	YES		08-11-2011
<b>diameter same (cross section)</b>	PGPB, USPT	ADJ	YES		08-11-2011
<b>(cell\$2 aggregate) same ((predetermined or pre-known or (already known) or preplanned or (thought through) or contemplated)same position)</b>	PGPB, USPT	ADJ	YES		08-11-2011
<b>(cell\$2 aggregate) same ((predetermined or pre-known or (already known) or preplanned or (thought through) or contemplated)same position)</b>	PGPB, USPT	ADJ	YES		08-11-2011
<b>biocompatible or (biologically compatible)</b>	PGPB, USPT	ADJ	YES		08-11-2011
<b>((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) ) same (diameter same (cross section) )</b>	PGPB, USPT	ADJ	YES		08-11-2011
<b>(AGGREGATE ) same (diameter same (cross section) )</b>	PGPB, USPT	ADJ	YES		08-11-2011
<b>L91same (diameter same (cross section) )</b>	PGPB, USPT	ADJ	YES		08-11-2011
<b>((THREE DIMENSION\$5) SAME TISSUE ) same (diameter same (cross section) )</b>	PGPB, USPT	ADJ	YES		08-11-2011
<b>((CARTILAGE OR (BONE TISSUE)) SAME MONOLAYER ) same (diameter same (cross section) )</b>	PGPB, USPT	ADJ	YES		08-11-2011
<b>((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) ) same (diameter same (cross section) )</b>	PGPB, USPT	ADJ	YES		08-11-2011
<b>((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE ) same (diameter same (cross section) )</b>	PGPB, USPT	ADJ	YES		08-11-2011
<b>((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE ) and (diameter same (cross section) )</b>	PGPB, USPT	ADJ	YES		08-11-2011

((("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) ) same (diameter same (cross section) )	PGPB, USPT	ADJ	YES		08-11-2011
(connective same tissue ) same (diameter same (cross section) )	PGPB, USPT	ADJ	YES		08-11-2011
(epitheli\$8 same cell ) same (diameter same (cross section) )	PGPB, USPT	ADJ	YES		08-11-2011
L24same (diameter same (cross section) )	PGPB, USPT	ADJ	YES		08-11-2011
(matrix same gel ) same (diameter same (cross section) )	PGPB, USPT	ADJ	YES		08-11-2011
(connective same tissue same matrix same gel ) same (diameter same (cross section) )	PGPB, USPT	ADJ	YES		08-11-2011
(engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) same (diameter same (cross section) )	PGPB, USPT	ADJ	YES		08-11-2011
(engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) and (diameter same (cross section) )	PGPB, USPT	ADJ	YES		08-11-2011
((("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) ) and (diameter same (cross section) )	PGPB, USPT	ADJ	YES		08-11-2011
(connective same tissue and matrix same gel ) and (diameter same (cross section) )	PGPB, USPT	ADJ	YES		08-11-2011
(connective same tissue and epitheli\$8 same cell ) and (diameter same (cross section) )	PGPB, USPT	ADJ	YES		08-11-2011
(connective same tissue and epitheli\$8 same cell and diameter same (cross section) ) or (connective same tissue and matrix same gel and diameter same (cross section) ) or ((("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) ) or (engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) ) or ((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) )	PGPB, USPT	ADJ	YES		08-11-2011

<p>(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) ) and (epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )</p>	PGPB, USPT	ADJ	YES		08-11-2011
<p>(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) and (matrix same gel and connective same tissue and epitheli\$8 same cell )</p>	PGPB, USPT	ADJ	YES		08-11-2011
<p>(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5)</p>	PGPB, USPT	ADJ	YES		08-11-2011

SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and matrix same gel and connective same tissue and epitheli\$8 same cell ) and (cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell )					
(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell ) and (cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		08-11-2011
(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or	PGPB, USPT	ADJ	YES		08-11-2011

<p>(biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) and (cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )</p>					
<p>(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) and (Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )</p>	PGPB, USPT	ADJ	YES		08-11-2011

<p>(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) and (engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )</p>	PGPB, USPT	ADJ	YES		08-11-2011
<p>(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or</p>	PGPB, USPT	ADJ	YES		08-11-2011



<p>(COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$) SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) and (embed\$6 and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) same Layer\$5 same (matrix\$4 or matrices) )</p>					
<p>(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or</p>	PGPB, USPT	ADJ	YES		08-11-2011

<p>(COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and embed\$6 and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) same Layer\$5 same (matrix\$4 or matrices) ) and (('3D" OR (('3") near5 (D OR DIMENSION\$8)) and 6197575.pn. )</p>					
<p>(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (('3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same</p>	PGPB, USPT	ADJ	YES		08-11-2011

(simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and embed\$6 and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) same Layer\$5 same (matrix\$4 or matrices) ) and (embed\$6 and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4)

same Layer\$5 same (matrix\$4 or matrices) and ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and 6197575.pn. )					
(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and embed\$6 and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7	PGPB, USPT	ADJ	YES		08-11-2011

or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) same Layer\$5 same (matrix\$4 or matrices) ) and ((numerical same model) same (computer same(simulat\$5 or model\$6 or programmed)) )					
(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and embed\$6 and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and	PGPB, USPT	ADJ	YES		08-11-2011

<p>epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) same Layer\$5 same (matrix\$4 or matrices) and (numerical same model) same (computer same(simulat\$5 or model\$6 or programmed)) ) and (('3D") OR (('3" near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )</p>					
<p>(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or (('3D") OR (('3" near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and</p>	PGPB, USPT	ADJ	YES		08-11-2011

<p>embed\$6 and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) same Layer\$5 same (matrix\$4 or matrices) and (numerical same model) same (computer same(simulat\$5 or model\$6 or programmed)) and ("3D") OR ("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) ) and ((numerical same model) same (computer same(simulat\$5 or model\$6 or programmed)) and ("3D") OR ("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )</p>					
<p>(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer</p>	PGPB, USPT	ADJ	YES		08-11-2011

<p>same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and embed\$6 and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) same Layer\$5 same (matrix\$4 or matrices) and (numerical same model) same (computer same(simulat\$5 or model\$6 or programmed)) and ("3D") OR ("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and (numerical same model) same (computer same(simulat\$5 or model\$6 or programmed)) and ("3D") OR ("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) ) and ((cell\$2 ggregate) same ((predetermined or pre-known or (already known) or preplanned or (thought through) or contemplated)same position) )</p>					
<p>(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe</p>	PGPB, USPT	ADJ	YES		08-11-2011



<p>scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and embed\$6 and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) same Layer\$5 same (matrix\$4 or matrices) and (numerical same model) same (computer same(simulat\$5 or model\$6 or programmed)) and ("3D") OR ("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and (numerical same model) same (computer same(simulat\$5 or model\$6 or programmed)) and ("3D") OR ("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) ) and ((cell\$2 aggregate) same ((predetermined or pre-known or (already known) or preplanned or (thought through) or contemplated)same position) )</p>					
<p>(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH</p>	PGPB, USPT	ADJ	YES		08-11-2011

<p>OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and embed\$6 and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) same Layer\$5 same (matrix\$4 or matrices) and (numerical same model) same (computer same(simulat\$5 or model\$6 or programmed)) and ("3D") OR ("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and (numerical same model) same (computer same(simulat\$5 or model\$6 or programmed)) and ("3D") OR ("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) ) and (biocompatible or (biologically compatible) )</p>					
(THREE DIMENSION\$5) and TISSUE	USOC, EPAB,	ADJ	YES		08-11-2011

	JPAB, DWPI				
<b>((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR))</b>	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
<b>((CARTILAGE OR mesenchyma or (BONE TISSUE)) and MONOLAYER</b>	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
<b>aggregate</b>	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
<b>diameter and (cross section)</b>	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
<b>((cell\$2 aggregate) same ((predetermined or pre-known or (already known) or preplanned or (thought through) or contemplated) and position)</b>	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
<b>biocompatible or (biologically compatible)</b>	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
<b>((THREE DIMENSION\$5) and TISSUE ) and ((cell\$2 aggregate) same ((predetermined or pre-known or (already known) or preplanned or (thought through) or contemplated) and position) )</b>	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
<b>((THREE DIMENSION\$5) and TISSUE ) and (diameter and (cross section) )</b>	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
<b>((THREE DIMENSION\$5) and TISSUE ) and ((CARTILAGE OR mesenchyma or (BONE TISSUE)) and MONOLAYER )</b>	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
<b>((THREE DIMENSION\$5) and TISSUE and (CARTILAGE OR mesenchyma or (BONE TISSUE)) and MONOLAYER ) and ((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR)) )</b>	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011

((THREE DIMENSION\$5) and TISSUE and (CARTILAGE OR mesenchyma or (BONE TISSUE)) and MONOLAYER and (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR)) ) and (aggregate )	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
((THREE DIMENSION\$5) and TISSUE and (CARTILAGE OR mesenchyma or (BONE TISSUE)) and MONOLAYER and (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR)) ) and (biocompatible or (biologically compatible) )	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR)) ) and (biocompatible or (biologically compatible) )	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR)) and biocompatible or (biologically compatible) ) and (aggregate )	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR)) and biocompatible or (biologically compatible) and aggregate ) and (diameter and (cross section) )	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
((cell\$2 aggregate) same ((predetermined or pre-known or (already known) or preplanned or (thought through) or contemplated) and position) ) and (diameter and (cross section) )	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
((cell\$2 aggregate) same ((predetermined or pre-known or (already known) or preplanned or (thought through) or contemplated) and position) and diameter and (cross section) ) and ((THREE DIMENSION\$5) and TISSUE and (CARTILAGE OR mesenchyma or (BONE TISSUE)) and MONOLAYER and (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR)) )	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
((cell\$2 aggregate) same ((predetermined or pre-known or (already known) or preplanned or (thought through) or contemplated) and position) and diameter and (cross section) ) and ((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR)) and biocompatible or (biologically compatible) )	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011

((cell\$2 aggregate) same ((predetermined or pre-known or (already known) or preplanned or (thought through) or contemplated) and position) and diameter and (cross section) ) and ((THREE DIMENSION\$5) and TISSUE and diameter and (cross section) )	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
((cell\$2 aggregate) same ((predetermined or pre-known or (already known) or preplanned or (thought through) or contemplated) and position) and diameter and (cross section) ) and ((THREE DIMENSION\$5) and TISSUE and (CARTILAGE OR mesenchyma or (BONE TISSUE)) and MONOLAYER )	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
("3D") OR ("3") near5 (D OR DIMENSION\$8))	PGPB, USPT	ADJ	YES		03-23-2012
cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4)	PGPB, USPT	ADJ	YES		03-23-2012
Matrix\$6 or matrices	PGPB, USPT	ADJ	YES		03-23-2012
embed\$6	PGPB, USPT	ADJ	YES		03-23-2012
engineer\$6 same ((tissue or (biologic\$9 same structur\$4)))	PGPB, USPT	ADJ	YES		03-23-2012
computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5))	PGPB, USPT	ADJ	YES		03-23-2012
cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4)	PGPB, USPT	ADJ	YES		03-23-2012
((("3D") OR ("3") near5 (D OR DIMENSION\$8)) ) same (cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		03-23-2012
(Matrix\$6 or matrices ) same (("3D") OR ("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		03-23-2012
(embed\$6 ) same (Matrix\$6 or matrices same ("3D") OR ("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		03-23-2012
(engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) ) same (embed\$6 same Matrix\$6 or matrices same ("3D") OR ("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		03-23-2012
(computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) same (("3D") OR ("3") near5 (D OR DIMENSION\$8)) same cell\$6 same	PGPB, USPT	ADJ	YES		03-23-2012

(aggregat\$4 or composit\$5 or scaffold\$4) )					
(Matrix\$6 or matrices ) same (computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) same ("3D") OR ("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		03-23-2012
(computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) same (cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		03-23-2012
("3D") OR ("3") near5 (D OR DIMENSION\$8)) ) same (computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		03-23-2012
(Matrix\$6 or matrices ) same ("3D") OR ("3") near5 (D OR DIMENSION\$8)) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		03-23-2012
(Matrix\$6 or matrices ) same (computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		03-23-2012
(engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) ) same (Matrix\$6 or matrices same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		03-23-2012
("3D") OR ("3") near5 (D OR DIMENSION\$8)) ) and (cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		03-23-2012
(engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) ) and ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		03-23-2012
(computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) and (engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		03-23-2012
connective same tissue	PGPB, USPT	ADJ	YES		03-23-2012
epitheli\$8 same cell	PGPB, USPT	ADJ	YES		03-23-2012
matrix same gel	PGPB, USPT	ADJ	YES		03-23-2012

(connective same tissue ) and (matrix same gel )	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue ) same (matrix same gel )	PGPB, USPT	ADJ	YES		03-23-2012
(epitheli\$8 same cell ) same (connective same tissue same matrix same gel )	PGPB, USPT	ADJ	YES		03-23-2012
(engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) ) same (computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		03-23-2012
((("3D") OR (("3") near5 (D OR DIMENSION\$8)) ) same (engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		03-23-2012
(epitheli\$8 same cell same connective same tissue same matrix same gel ) same (connective same tissue same matrix same gel )	PGPB, USPT	ADJ	YES		03-23-2012
(epitheli\$8 same cell same connective same tissue same matrix same gel ) and (engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue ) and (epitheli\$8 same cell )	PGPB, USPT	ADJ	YES		03-23-2012
(matrix same gel ) and (connective same tissue and epitheli\$8 same cell )	PGPB, USPT	ADJ	YES		03-23-2012
(cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) ) and (matrix same gel and connective same tissue and epitheli\$8 same cell )	PGPB, USPT	ADJ	YES		03-23-2012
(cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) ) and (computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		03-23-2012
(cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell ) and (cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		03-23-2012
(Matrix\$6 or matrices ) and (cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		03-23-2012

(engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) ) and (Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		03-23-2012
(embed\$6 ) and (engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		03-23-2012
Layer\$5 same (matrix\$4 or matrices)	PGPB, USPT	ADJ	YES		03-23-2012
(cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) ) same (Layer\$5 same (matrix\$4 or matrices) )	PGPB, USPT	ADJ	YES		03-23-2012
(embed\$6 and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) and (cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) same Layer\$5 same (matrix\$4 or matrices) )	PGPB, USPT	ADJ	YES		03-23-2012
6197575.pn.	PGPB, USPT	ADJ	YES		03-23-2012
((("3D")) OR ((("3") near5 (D OR DIMENSION\$8)) ) and (6197575.pn. )	PGPB, USPT	ADJ	YES		03-23-2012
(embed\$6 and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) same Layer\$5 same (matrix\$4 or matrices) ) and ((("3D")) OR ((("3") near5 (D OR DIMENSION\$8)) and 6197575.pn. )	PGPB, USPT	ADJ	YES		03-23-2012
(numerical same model) same (computer same(simulat\$5 or model\$6 or programmed))	PGPB, USPT	ADJ	YES		03-23-2012



<b>((("3D")) OR (("3")) near5 (D OR DIMENSION\$8)) ) same (cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )</b>	PGPB, USPT	ADJ	YES		03-23-2012
<b>((numerical same model) same (computer same(simulat\$5 or model\$6 or programmed)) ) and ((("3D")) OR (("3")) near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )</b>	PGPB, USPT	ADJ	YES		03-23-2012
<b>((("3D")) OR (("3")) and (D OR DIMENSION\$8))</b>	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>Matrix\$6 or matrices</b>	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>embed\$6</b>	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>engineer\$6 and((tissue or (biologic\$9 and structur\$4)))</b>	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>computer and(simulat\$7 or assist\$7 or design\$5 or (assisted and design\$5))</b>	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4)</b>	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>connective tissue</b>	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>epitheli\$8 and cell</b>	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>matrix and gel</b>	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>Layer\$5 and (matrix\$4 or matrices)</b>	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>(numerical and model)and (computer and(simulat\$5 or model\$6 or programmed))</b>	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>((("3D")) OR (("3")) and (D OR DIMENSION\$8)) ) and (Layer\$5 and (matrix\$4 or matrices) )</b>	EPAB, JPAB,	ADJ	YES		03-23-2012

	DWPI				
(cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) ) and (("3D") OR ("3") and (D OR DIMENSION\$8)) and Layer\$5 and (matrix\$4 or matrices) )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
((numerical and model)and (computer and(simulat\$5 or model\$6 or programmed)) ) and (cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and ("3D") OR ("3") and (D OR DIMENSION\$8)) and Layer\$5 and (matrix\$4 or matrices) )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(epitheli\$8 and cell ) and (matrix and gel )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(Layer\$5 and (matrix\$4 or matrices) ) and (epitheli\$8 and cell and matrix and gel )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(connective tissue ) and (Layer\$5 and (matrix\$4 or matrices) and epitheli\$8 and cell and matrix and gel )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(engineer\$6 and((tissue or (biologic\$9 and structur\$4))) ) and (computer and(simulat\$7 or assist\$7 or design\$5 or (assisted and design\$5)) )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) ) and (connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(epitheli\$8 and cell ) and (cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(matrix and gel ) and (epitheli\$8 and cell and cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(Layer\$5 and (matrix\$4 or matrices) ) and (epitheli\$8 and cell and cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(engineer\$6 and((tissue or (biologic\$9 and structur\$4))) and computer and(simulat\$7 or assist\$7 or design\$5 or (assisted and design\$5)) ) and (cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(engineer\$6 and((tissue or (biologic\$9 and structur\$4))) and computer and(simulat\$7 or assist\$7 or design\$5 or (assisted and design\$5)) ) and (epitheli\$8 and cell and cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012

(Layer\$5 and (matrix\$4 or matrices) and epitheli\$8 and cell and matrix and gel ) and (epitheli\$8 and cell and cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(Layer\$5 and (matrix\$4 or matrices) and epitheli\$8 and cell and matrix and gel ) and (cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(Layer\$5 and (matrix\$4 or matrices) and epitheli\$8 and cell and matrix and gel ) and (engineer\$6 and((tissue or (biologic\$9 and structur\$4))) and computer and(simulat\$7 or assist\$7 or design\$5 or (assisted and design\$5)) )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(Layer\$5 and (matrix\$4 or matrices) and epitheli\$8 and cell and matrix and gel ) and (matrix and gel and epitheli\$8 and cell and cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(Layer\$5 and (matrix\$4 or matrices) and epitheli\$8 and cell and matrix and gel ) and (("3D") OR (("3") and (D OR DIMENSION\$8)) )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(Matrix\$6 or matrices ) and (Layer\$5 and (matrix\$4 or matrices) and epitheli\$8 and cell and matrix and gel and ("3D") OR (("3") and (D OR DIMENSION\$8)) )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(embed\$6 ) and (Matrix\$6 or matrices and Layer\$5 and (matrix\$4 or matrices) and epitheli\$8 and cell and matrix and gel and ("3D") OR (("3") and (D OR DIMENSION\$8)) )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(("3D") OR (("3") and (D OR DIMENSION\$8)) ) and (Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(embed\$6 ) and (("3D") OR (("3") and (D OR DIMENSION\$8)) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(engineer\$6 and((tissue or (biologic\$9 and structur\$4))) ) and (embed\$6 and ("3D") OR (("3") and (D OR DIMENSION\$8)) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(computer and(simulat\$7 or assist\$7 or design\$5 or (assisted and design\$5)) ) and (embed\$6 and ("3D") OR (("3") and (D OR DIMENSION\$8)) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) ) and (embed\$6 and ("3D") OR (("3") and (D OR DIMENSION\$8)) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012

(connective tissue ) and (cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and embed\$6 and ("3D") OR ("3") and (D OR DIMENSION\$8)) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(epitheli\$8 and cell ) and (cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and embed\$6 and ("3D") OR ("3") and (D OR DIMENSION\$8)) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(matrix and gel ) and (cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and embed\$6 and ("3D") OR ("3") and (D OR DIMENSION\$8)) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(Layer\$5 and (matrix\$4 or matrices) ) and (cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and embed\$6 and ("3D") OR ("3") and (D OR DIMENSION\$8)) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(computer and(simulat\$7 or assist\$7 or design\$5 or (assisted and design\$5)) and embed\$6 and ("3D") OR ("3") and (D OR DIMENSION\$8)) and Matrix\$6 or matrices ) and (Layer\$5 and (matrix\$4 or matrices) and cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and embed\$6 and ("3D") OR ("3") and (D OR DIMENSION\$8)) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
20030153078.PN.	PGPB, USPT	ADJ	YES		03-23-2012
(THREE DIMENSION\$5) SAME TISSUE	PGPB, USPT	ADJ	YES		03-23-2012
((THREE DIMENSION\$5) SAME TISSUE ) AND (20030153078.PN. )	PGPB, USPT	ADJ	YES		03-23-2012
(COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR))	PGPB, USPT	ADJ	YES		03-23-2012
((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) ) AND ((THREE DIMENSION\$5) SAME TISSUE )	PGPB, USPT	ADJ	YES		03-23-2012
MESENCHYMA	PGPB, USPT	ADJ	YES		03-23-2012
(CARTILAGE OR (BONE TISSUE)) SAME MONOLAYER	PGPB, USPT	ADJ	YES		03-23-2012
AGGREGATE	PGPB, USPT	ADJ	YES		03-23-2012

<b>(AGGREGATE ) AND (20030153078.PN. )</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>(AGGREGATE AND 20030153078.PN. ) AND ((CARTILAGE OR (BONE TISSUE)) SAME MONOLAYER )</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>(AGGREGATE AND 20030153078.PN. AND (CARTILAGE OR (BONE TISSUE)) SAME MONOLAYER ) AND ((THREE DIMENSION\$5) SAME TISSUE )</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>diameter same (cross section)</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>(cell\$2 aggregate) same ((predetermined or pre-known or (already known) or preplanned or (thought through) or contemplated) same position)</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>biocompatible or (biologically compatible)</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) ) same (diameter same (cross section) )</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>(AGGREGATE ) same (diameter same (cross section) )</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>((THREE DIMENSION\$5) SAME TISSUE ) same (diameter same (cross section) )</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE ) and (diameter same (cross section) )</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>(connective same tissue ) same (diameter same (cross section) )</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>(epitheli\$8 same cell ) same (diameter same (cross section) )</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>(matrix same gel ) same (diameter same (cross section) )</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>(connective same tissue same matrix same gel ) same (diameter same (cross section) )</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>(engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) and (diameter same (cross section) )</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>

((("3D") OR (("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) ) and (diameter same (cross section) )	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue and matrix same gel ) and (diameter same (cross section) )	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue and epitheli\$8 same cell ) and (diameter same (cross section) )	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue and epitheli\$8 same cell and diameter same (cross section) ) or (connective same tissue and matrix same gel and diameter same (cross section) ) or ((("3D") OR (("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) ) or (engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) ) or ((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) )	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) ) and (epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same	PGPB, USPT	ADJ	YES		03-23-2012

design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) and (matrix same gel and connective same tissue and epitheli\$8 same cell )					
(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and matrix same gel and connective same tissue and epitheli\$8 same cell ) and (cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell )	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same	PGPB, USPT	ADJ	YES		03-23-2012

(simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell ) and (cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )					
(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) and (cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5)	PGPB, USPT	ADJ	YES		03-23-2012



<p>SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) and (Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )</p>					
<p>(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe</p>	PGPB, USPT	ADJ	YES		03-23-2012

scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) and (engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )					
(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6	PGPB, USPT	ADJ	YES		03-23-2012

<p>near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) and (embed\$6 and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) same Layer\$5 same (matrix\$4 or matrices) )</p>					
<p>(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6</p>	PGPB, USPT	ADJ	YES		03-23-2012



<p>design\$5)) and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and embed\$6 and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) same Layer\$5 same (matrix\$4 or matrices) and (numerical same model) same (computer same(simulat\$5 or model\$6 or programmed)) ) and (("3D") OR ("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )</p>					
<p>(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe</p>	PGPB, USPT	ADJ	YES		03-23-2012

<p>scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and embed\$6 and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) same Layer\$5 same (matrix\$4 or matrices) and (numerical same model) same (computer same(simulat\$5 or model\$6 or programmed)) and ("3D") OR ("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) ) and ((numerical same model) same (computer same(simulat\$5 or model\$6 or programmed)) and ("3D") OR ("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )</p>					
<p>(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe</p>	PGPB, USPT	ADJ	YES		03-23-2012

scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and embed\$6 and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) same Layer\$5 same (matrix\$4 or matrices) and (numerical same model) same (computer same(simulat\$5 or model\$6 or programmed)) and ("3D") OR ("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and (numerical same model) same (computer same(simulat\$5 or model\$6 or programmed)) and ("3D") OR ("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) ) and (biocompatible or (biologically compatible) )					
(THREE DIMENSION\$5) and TISSUE	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR))	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(CARTILAGE OR mesenchyma or (BONE TISSUE)) and MONOLAYER	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012

<b>aggregate</b>	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>diameter and (cross section)</b>	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>((cell\$2 aggregate) same ((predetermined or pre-known or (already known) or preplanned or (thought through) or contemplated) and position)</b>	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>biocompatible or (biologically compatible)</b>	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>((THREE DIMENSION\$5) and TISSUE ) and (diameter and (cross section) )</b>	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>((THREE DIMENSION\$5) and TISSUE ) and ((CARTILAGE OR mesenchyma or (BONE TISSUE)) and MONOLAYER )</b>	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>((THREE DIMENSION\$5) and TISSUE and (CARTILAGE OR mesenchyma or (BONE TISSUE)) and MONOLAYER ) and ((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR)) )</b>	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR)) ) and (biocompatible or (biologically compatible) )</b>	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR)) and biocompatible or (biologically compatible) ) and (aggregate )</b>	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>((cell\$2 aggregate) same ((predetermined or pre-known or (already known) or preplanned or (thought through) or contemplated) and position) ) and (diameter and (cross section) )</b>	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>(cell same aggregate) same (emmedded or immersed)</b>	PGPB, USPT	ADJ	YES		03-23-2012



((cell same aggregate) same (emmbded or immersed) ) and (connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) )	PGPB, USPT	ADJ	YES		03-23-2012
((cell same aggregate) same (emmbded or immersed) and connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) ) and (biocompatible or (biologically compatible) )	PGPB, USPT	ADJ	YES		03-23-2012
((cell same aggregate) same (emmbded or immersed) and connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and biocompatible or (biologically compatible) ) and (AGGREGATE )	PGPB, USPT	ADJ	YES		03-23-2012
20080070304.pn.	PGPB, USPT	ADJ	YES		03-23-2012
(435/395).ccls.		ADJ	YES		03-23-2012

	PGPB, USPT				
(435/397).ccls.	PGPB, USPT	ADJ	YES		03-23-2012
((435/395).ccls. ) and ((435/397).ccls. )	PGPB, USPT	ADJ	YES		03-23-2012
((435/395).ccls. and (435/397).ccls. ) and (20080070304.pn. )	PGPB, USPT	ADJ	YES		03-23-2012
((435/395).ccls. and (435/397).ccls. and 20080070304.pn. ) and (AGGREGATE )	PGPB, USPT	ADJ	YES		03-23-2012
((435/395).ccls. and (435/397).ccls. and 20080070304.pn. and AGGREGATE ) and ((cell same aggregate) same (emmbded or immersed) )	PGPB, USPT	ADJ	YES		03-23-2012
(cell and aggregate) and (emmbded or immersed)	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
((cell and aggregate) and (emmbded or immersed) ) and ((THREE DIMENSION\$5) and TISSUE )	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
((cell and aggregate) and (emmbded or immersed) and (THREE DIMENSION\$5) and TISSUE ) and ((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR)) and biocompatible or (biologically compatible) and aggregate )	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
20040219133.pn.	PGPB, USPT	ADJ	YES		03-23-2012
20070142916.pn.	PGPB, USPT	ADJ	YES		03-23-2012
20070231787.pn.	PGPB, USPT	ADJ	YES		03-23-2012
20090248145.pn.	PGPB, USPT	ADJ	YES		03-23-2012
("3D") OR ("3") near5 (D OR DIMENSION\$8))	PGPB, USPT	ADJ	YES		03-23-2012
cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4)	PGPB, USPT	ADJ	YES		03-23-2012
Matrix\$6 or matrices		ADJ	YES		03-23-2012

	PGPB, USPT				
embed\$6	PGPB, USPT	ADJ	YES		03-23-2012
engineer\$6 same ((tissue or (biologic\$9 same structur\$4)))	PGPB, USPT	ADJ	YES		03-23-2012
computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5))	PGPB, USPT	ADJ	YES		03-23-2012
cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4)	PGPB, USPT	ADJ	YES		03-23-2012
((("3D") OR (("3") near5 (D OR DIMENSION\$8)) ) same (cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		03-23-2012
(Matrix\$6 or matrices ) same (("3D") OR (("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		03-23-2012
(embed\$6 ) same (Matrix\$6 or matrices same ("3D") OR (("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		03-23-2012
(engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) ) same (embed\$6 same Matrix\$6 or matrices same ("3D") OR (("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		03-23-2012
(computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) same (("3D") OR (("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		03-23-2012
(Matrix\$6 or matrices ) same (computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) same ("3D") OR (("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		03-23-2012
(computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) same (cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		03-23-2012
((("3D") OR (("3") near5 (D OR DIMENSION\$8)) ) same (computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		03-23-2012
(Matrix\$6 or matrices ) same (("3D") OR (("3") near5 (D OR DIMENSION\$8)) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same	PGPB, USPT	ADJ	YES		03-23-2012

design\$5)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )					
(Matrix\$6 or matrices ) same (computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		03-23-2012
(engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) ) same (Matrix\$6 or matrices same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		03-23-2012
("3D") OR ("3") near5 (D OR DIMENSION\$8)) ) and (cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		03-23-2012
(engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) ) and ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		03-23-2012
(computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) and (engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		03-23-2012
connective same tissue	PGPB, USPT	ADJ	YES		03-23-2012
epitheli\$8 same cell	PGPB, USPT	ADJ	YES		03-23-2012
matrix same gel	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue ) and (matrix same gel )	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue ) same (matrix same gel )	PGPB, USPT	ADJ	YES		03-23-2012
(epitheli\$8 same cell ) same (connective same tissue same matrix same gel )	PGPB, USPT	ADJ	YES		03-23-2012
(engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) ) same (computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		03-23-2012
("3D") OR ("3") near5 (D OR DIMENSION\$8)) ) same (engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		03-23-2012
		ADJ	YES		03-23-2012

(epitheli\$8 same cell same connective same tissue same matrix same gel ) same (connective same tissue same matrix same gel )	PGPB, USPT				
(epitheli\$8 same cell same connective same tissue same matrix same gel ) and (engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue ) and (epitheli\$8 same cell )	PGPB, USPT	ADJ	YES		03-23-2012
(matrix same gel ) and (connective same tissue and epitheli\$8 same cell )	PGPB, USPT	ADJ	YES		03-23-2012
(cell\$6 near\$5 (aggregat\$4 or composit\$5 oe scaffold\$4) ) and (matrix same gel and connective same tissue and epitheli\$8 same cell )	PGPB, USPT	ADJ	YES		03-23-2012
(cell\$6 near\$5 (aggregat\$4 or composit\$5 oe scaffold\$4) ) and (computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		03-23-2012
(cell\$6 near\$5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell ) and (cell\$6 near\$5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		03-23-2012
(Matrix\$6 or matrices ) and (cell\$6 near\$5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near\$5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		03-23-2012
(engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) ) and (Matrix\$6 or matrices and cell\$6 near\$5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near\$5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		03-23-2012
(embed\$6 ) and (engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near\$5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near\$5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		03-23-2012
Layer\$5 same (matrix\$4 or matrices)		ADJ	YES		03-23-2012

	PGPB, USPT				
(cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) ) same (Layer\$5 same (matrix\$4 or matrices) )	PGPB, USPT	ADJ	YES		03-23-2012
(embed\$6 and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) and (cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) same Layer\$5 same (matrix\$4 or matrices) )	PGPB, USPT	ADJ	YES		03-23-2012
6197575.pn.	PGPB, USPT	ADJ	YES		03-23-2012
((("3D")) OR (("3")) near5 (D OR DIMENSION\$8)) ) and (6197575.pn. )	PGPB, USPT	ADJ	YES		03-23-2012
(embed\$6 and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) same Layer\$5 same (matrix\$4 or matrices) ) and ((("3D")) OR (("3")) near5 (D OR DIMENSION\$8)) and 6197575.pn. )	PGPB, USPT	ADJ	YES		03-23-2012
(numerical same model) same (computer same(simulat\$5 or model\$6 or programmed))	PGPB, USPT	ADJ	YES		03-23-2012
((("3D")) OR (("3")) near5 (D OR DIMENSION\$8)) ) same (cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		03-23-2012
((numerical same model) same (computer same(simulat\$5 or model\$6 or programmed)) ) and ((("3D")) OR (("3")) near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )	PGPB, USPT	ADJ	YES		03-23-2012
((("3D")) OR (("3")) and (D OR DIMENSION\$8))	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
Matrix\$6 or matrices	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012

<b>embed\$6</b>	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>engineer\$6 and((tissue or (biologic\$9 and structur\$4)))</b>	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>computer and(simulat\$7 or assist\$7 or design\$5 or (assisted and design\$5))</b>	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4)</b>	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>connective tissue</b>	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>epitheli\$8 and cell</b>	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>matrix and gel</b>	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>Layer\$5 and (matrix\$4 or matrices)</b>	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>(numerical and model)and (computer and(simulat\$5 or model\$6 or programmed))</b>	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>((("3D")) OR (("3")) and (D OR DIMENSION\$8)) ) and (Layer\$5 and (matrix\$4 or matrices) )</b>	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>(cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) ) and ((("3D")) OR (("3")) and (D OR DIMENSION\$8)) and Layer\$5 and (matrix\$4 or matrices) )</b>	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>((numerical and model)and (computer and(simulat\$5 or model\$6 or programmed)) ) and (cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and ("3D") OR ("3") and (D OR DIMENSION\$8)) and Layer\$5 and (matrix\$4 or matrices) )</b>	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>(epitheli\$8 and cell ) and (matrix and gel )</b>	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
		ADJ	YES		03-23-2012

(Layer\$5 and (matrix\$4 or matrices) ) and (epitheli\$8 and cell and matrix and gel )	EPAB, JPAB, DWPI				
(connective tissue ) and (Layer\$5 and (matrix\$4 or matrices) and epitheli\$8 and cell and matrix and gel )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(engineer\$6 and(((tissue or (biologic\$9 and structur\$4))) ) and (computer and(simulat\$7 or assist\$7 or design\$5 or (assisted and design\$5)) )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) ) and (connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(epitheli\$8 and cell ) and (cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(matrix and gel ) and (epitheli\$8 and cell and cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(Layer\$5 and (matrix\$4 or matrices) ) and (epitheli\$8 and cell and cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(engineer\$6 and(((tissue or (biologic\$9 and structur\$4))) and computer and(simulat\$7 or assist\$7 or design\$5 or (assisted and design\$5)) ) and (cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(engineer\$6 and(((tissue or (biologic\$9 and structur\$4))) and computer and(simulat\$7 or assist\$7 or design\$5 or (assisted and design\$5)) ) and (epitheli\$8 and cell and cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(Layer\$5 and (matrix\$4 or matrices) and epitheli\$8 and cell and matrix and gel ) and (epitheli\$8 and cell and cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(Layer\$5 and (matrix\$4 or matrices) and epitheli\$8 and cell and matrix and gel ) and (cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(Layer\$5 and (matrix\$4 or matrices) and epitheli\$8 and cell and matrix and gel ) and (engineer\$6 and(((tissue or (biologic\$9 and structur\$4))) and computer and(simulat\$7 or assist\$7 or design\$5 or (assisted and design\$5)) )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012



(Layer\$5 and (matrix\$4 or matrices) and epitheli\$8 and cell and matrix and gel ) and (matrix and gel and epitheli\$8 and cell and cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and connective tissue )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(Layer\$5 and (matrix\$4 or matrices) and epitheli\$8 and cell and matrix and gel ) and (("3D") OR (("3") and (D OR DIMENSION\$8))) )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(Matrix\$6 or matrices ) and (Layer\$5 and (matrix\$4 or matrices) and epitheli\$8 and cell and matrix and gel and ("3D") OR (("3") and (D OR DIMENSION\$8))) )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(embed\$6 ) and (Matrix\$6 or matrices and Layer\$5 and (matrix\$4 or matrices) and epitheli\$8 and cell and matrix and gel and ("3D") OR (("3") and (D OR DIMENSION\$8))) )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(("3D") OR (("3") and (D OR DIMENSION\$8))) ) and (Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(embed\$6 ) and (("3D") OR (("3") and (D OR DIMENSION\$8))) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(engineer\$6 and((tissue or (biologic\$9 and structur\$4))) ) and (embed\$6 and ("3D") OR (("3") and (D OR DIMENSION\$8))) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(computer and(simulat\$7 or assist\$7 or design\$5 or (assisted and design\$5)) ) and (embed\$6 and ("3D") OR (("3") and (D OR DIMENSION\$8))) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) ) and (embed\$6 and ("3D") OR (("3") and (D OR DIMENSION\$8))) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(connective tissue ) and (cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and embed\$6 and ("3D") OR (("3") and (D OR DIMENSION\$8))) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(epitheli\$8 and cell ) and (cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and embed\$6 and ("3D") OR (("3") and (D OR DIMENSION\$8))) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(matrix and gel ) and (cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and embed\$6 and ("3D") OR (("3") and (D OR DIMENSION\$8))) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012

(Layer\$5 and (matrix\$4 or matrices) ) and (cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and embed\$6 and ("3D") OR ("3") and (D OR DIMENSION\$8)) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(computer and(simulat\$7 or assist\$7 or design\$5 or (assisted and design\$5)) and embed\$6 and ("3D") OR ("3") and (D OR DIMENSION\$8)) and Matrix\$6 or matrices ) and (Layer\$5 and (matrix\$4 or matrices) and cell\$6 and (aggregat\$4 or composit\$5 or scaffold\$4) and embed\$6 and ("3D") OR ("3") and (D OR DIMENSION\$8)) and Matrix\$6 or matrices )	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
20030153078.PN.	PGPB, USPT	ADJ	YES		03-23-2012
(THREE DIMENSION\$5) SAME TISSUE	PGPB, USPT	ADJ	YES		03-23-2012
((THREE DIMENSION\$5) SAME TISSUE ) AND (20030153078.PN. )	PGPB, USPT	ADJ	YES		03-23-2012
(COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR))	PGPB, USPT	ADJ	YES		03-23-2012
((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) ) AND ((THREE DIMENSION\$5) SAME TISSUE )	PGPB, USPT	ADJ	YES		03-23-2012
MESENCHYMA	PGPB, USPT	ADJ	YES		03-23-2012
(CARTILAGE OR (BONE TISSUE)) SAME MONOLAYER	PGPB, USPT	ADJ	YES		03-23-2012
AGGREGATE	PGPB, USPT	ADJ	YES		03-23-2012
(AGGREGATE ) AND (20030153078.PN. )	PGPB, USPT	ADJ	YES		03-23-2012
(AGGREGATE AND 20030153078.PN. ) AND ((CARTILAGE OR (BONE TISSUE)) SAME MONOLAYER )	PGPB, USPT	ADJ	YES		03-23-2012
(AGGREGATE AND 20030153078.PN. AND (CARTILAGE OR (BONE TISSUE)) SAME MONOLAYER ) AND ((THREE DIMENSION\$5) SAME TISSUE )	PGPB, USPT	ADJ	YES		03-23-2012
diameter same (cross section)	PGPB, USPT	ADJ	YES		03-23-2012

<b>(cell\$2 aggregate) same ((predetermined or pre-known or (already known) or preplanned or (thought through) or contemplated) same position)</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>biocompatible or (biologically compatible)</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) ) same (diameter same (cross section) )</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>(AGGREGATE ) same (diameter same (cross section) )</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>((THREE DIMENSION\$5) SAME TISSUE ) same (diameter same (cross section) )</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE ) and (diameter same (cross section) )</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>(connective same tissue ) same (diameter same (cross section) )</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>(epitheli\$8 same cell ) same (diameter same (cross section) )</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>(matrix same gel ) same (diameter same (cross section) )</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>(connective same tissue same matrix same gel ) same (diameter same (cross section) )</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>(engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) and (diameter same (cross section) )</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>((("3D")) OR (("3")) near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) ) and (diameter same (cross section) )</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>(connective same tissue and matrix same gel ) and (diameter same (cross section) )</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>(connective same tissue and epitheli\$8 same cell ) and (diameter same (cross section) )</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>(connective same tissue and epitheli\$8 same cell and diameter same (cross section) ) or (connective same tissue and matrix same gel and diameter same (cross section) ) or ((("3D")) OR (("3")) near5 (D OR DIMENSION\$8))</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>

and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) ) or (engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) ) or ((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) )					
(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) ) and (epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) and (matrix same gel and connective same tissue and epitheli\$8 same cell )	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue	PGPB, USPT	ADJ	YES		03-23-2012

<p>and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and matrix same gel and connective same tissue and epitheli\$8 same cell ) and (cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell )</p>					
<p>(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell ) and (cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )</p>	PGPB, USPT	ADJ	YES		03-23-2012
<p>(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and</p>	PGPB, USPT	ADJ	YES		03-23-2012

<p>diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) and (cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )</p>					
<p>(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same</p>	PGPB, USPT	ADJ	YES		03-23-2012

cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) and (Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )					
(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) and (engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) )	PGPB, USPT	ADJ	YES		03-23-2012

<p>(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) ) and (embed\$6 and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) same Layer\$5 same (matrix\$4 or matrices) )</p>	PGPB, USPT	ADJ	YES		03-23-2012
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<p>(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and embed\$6 and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) same Layer\$5 same (matrix\$4 or matrices) ) and ((numerical same model) same (computer</p>	PGPB, USPT	ADJ	YES		03-23-2012
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same(simulat\$5 or model\$6 or programmed)) )					
<p>(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and embed\$6 and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4)</p>	PGPB, USPT	ADJ	YES		03-23-2012

<p>same Layer\$5 same (matrix\$4 or matrices) and (numerical same model) same (computer same(simulat\$5 or model\$6 or programmed)) ) and (('3D') OR (('3" near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )</p>					
<p>(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ('3D') OR (('3" near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and embed\$6 and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and</p>	PGPB, USPT	ADJ	YES		03-23-2012

<p>epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) same Layer\$5 same (matrix\$4 or matrices) and (numerical same model) same (computer same(simulat\$5 or model\$6 or programmed)) and ("3D") OR ("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) ) and ((numerical same model) same (computer same(simulat\$5 or model\$6 or programmed)) and ("3D") OR ("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) )</p>					
<p>(connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and epitheli\$8 same cell same connective same tissue same matrix same gel and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and</p>	PGPB, USPT	ADJ	YES		03-23-2012

matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and embed\$6 and engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) and Matrix\$6 or matrices and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and matrix same gel and connective same tissue and epitheli\$8 same cell and cell\$6 near5 (aggregat\$4 or composit\$5 oe scaffold\$4) and computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) same Layer\$5 same (matrix\$4 or matrices) and (numerical same model) same (computer same(simulat\$5 or model\$6 or programmed)) and ("3D") OR ("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and (numerical same model) same (computer same(simulat\$5 or model\$6 or programmed)) and ("3D") OR ("3") near5 (D OR DIMENSION\$8)) same cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) ) and (biocompatible or (biologically compatible) )					
(THREE DIMENSION\$5) and TISSUE	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR))	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(CARTILAGE OR mesenchyma or (BONE TISSUE)) and MONOLAYER	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
aggregate	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
diameter and (cross section)	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(cell\$2 aggregate) same ((predetermined or pre-known or (already known) or preplanned or (thought through) or contemplated) and position)	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012

biocompatible or (biologically compatible)	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
((THREE DIMENSION\$5) and TISSUE ) and (diameter and (cross section) )	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
((THREE DIMENSION\$5) and TISSUE ) and ((CARTILAGE OR mesenchyma or (BONE TISSUE)) and MONOLAYER )	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
((THREE DIMENSION\$5) and TISSUE and (CARTILAGE OR mesenchyma or (BONE TISSUE)) and MONOLAYER ) and ((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR)) )	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR)) ) and (biocompatible or (biologically compatible) )	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR)) and biocompatible or (biologically compatible) ) and (aggregate )	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
((cell\$2 aggregate) same ((predetermined or pre-known or (already known) or preplanned or (thought through) or contemplated) and position) ) and (diameter and (cross section) )	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(cell same aggregate) same (emmbdedd or immersed)	PGPB, USPT	ADJ	YES		03-23-2012
((cell same aggregate) same (emmbdedd or immersed) ) and (connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4)) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5)	PGPB, USPT	ADJ	YES		03-23-2012

<b>SAME TISSUE and diameter same (cross section) )</b>					
<b>((cell same aggregate) same (emmbded or immersed) and connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) ) and (biocompatible or (biologically compatible) )</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>((cell same aggregate) same (emmbded or immersed) and connective same tissue and epitheli\$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR ("3") near5 (D OR DIMENSION\$8)) and cell\$6 same (aggregat\$4 or composit\$5 or scaffold\$4) and diameter same (cross section) or engineer\$6 same ((tissue or (biologic\$9 same structur\$4))) same computer same (simulat\$7 or assist\$7 or design\$5 or (assisted same design\$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION\$5) SAME TISSUE and diameter same (cross section) and biocompatible or (biologically compatible) ) and (AGGREGATE )</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>20080070304.pn.</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>(435/395).ccls.</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>(435/397).ccls.</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>((435/395).ccls. ) and ((435/397).ccls. )</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>((435/395).ccls. and (435/397).ccls. ) and (20080070304.pn. )</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>
<b>((435/395).ccls. and (435/397).ccls. and 20080070304.pn. ) and (AGGREGATE )</b>	<b>PGPB, USPT</b>	<b>ADJ</b>	<b>YES</b>		<b>03-23-2012</b>

<b>((435/395).ccls. and (435/397).ccls. and 20080070304.pn. and AGGREGATE ) and ((cell same aggregate) same (emmbded or immersed) )</b>	PGPB, USPT	ADJ	YES		03-23-2012
<b>(cell and aggregate) and (emmbded or immersed)</b>	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>((cell and aggregate) and (emmbded or immersed) ) and ((THREE DIMENSION\$5) and TISSUE )</b>	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>((cell and aggregate) and (emmbded or immersed) and (THREE DIMENSION\$5) and TISSUE ) and ((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR)) and biocompatible or (biologically compatible) and aggregate )</b>	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
<b>20040219133.pn.</b>	PGPB, USPT	ADJ	YES		03-23-2012
<b>20070142916.pn.</b>	PGPB, USPT	ADJ	YES		03-23-2012
<b>20070231787.pn.</b>	PGPB, USPT	ADJ	YES		03-23-2012
<b>20090248145.pn.</b>	PGPB, USPT	ADJ	YES		03-23-2012